Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

| Substitut | e for form 1449A/PTC | | CIDITALUI 1030, 10 pessus | ae aque o o esparo o o cue au r | Complete if Known | o sometime |
|------------------------|----------------------|--------|---------------------------|---------------------------------|-------------------|------------|
| | | | | Application Number | 10/708,925 | |
| INFC | RMATION | DIS | CLOSURE | Filing Date | November 14, 2003 | |
| STATEMENT BY APPLICANT | | | | First Named Inventor | David Frank | |
| | | | | Art Unit | 1746 | |
| | (Use as many she | ets as | necessary) | Examiner Name | Unknown Bell | |
| Sheet | 1 1 | of | 1 | Attorney Docket Number | 9351-218 | |

NOV 1 4 2003 U.S. PATENT DOCUMENTS Name of Patentee or Applicant of Cited Document TRADEMAN Document Number Publication Date MM-DQ-YYYY Cite No.1 Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear Number - Kind Code² (if known) US-4,050,700 09/27/1977 Lifferth US- 4,397,917 10/09/1983 2 Chi et al. 3 US- 4,772,031 09-20-1988 Рорро US-US-US-US-US-US-US-US-US-US-US-US-US-US-

> US-US-US-

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|---|---|--------------------|---|--|----|
| Examiner Initials* | Cite No.1 Compact Code No.2 Foreign Patent Document | | Publication | Name of Patentee or | Pages, Columns, Lines, Where Relevant | |
| | No.' | Country Code ³ - Number ⁴ - Kind Code ⁶ (if known) | Oete MM-DD-YYYY | Applicant of Cited Document | Passages or Relevant Figures Appear | ヸ. |
| BB | 4 | EP 0122150A2 | 10/17/1984 | Engelhard Corporation | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | *************************************** | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| 05.55.55 | Examiner Signature | Brua Bul | Date Considered | 12-6-05 |
|----------|-----------------------|----------|--------------------|---------|
|----------|-----------------------|----------|--------------------|---------|



Estilla De form 1449A/PTO

PTO/SB/08a (08-03) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

perwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known Application Number 10/708,925 Filing Date November 14, 2003 First Named Inventor David G. Frank et al. Art Unit 1746 Examiner Name **Bruce Bell**

(Use as many sheets as necessary)

Sheet 1 Attomey Docket Number 9351-218

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|------|--|---|--|--|--|
| Examiner | Cite | Document Number | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant | |
| Initials * | No.1 | Number - Kind Code ³ (il known) | MM-DD-YYYY | Chao bocanish | Passages or Relevant Figures Appear | |
| BB | | US- 2002/0117780 | 08/29/2002 | Inoue et al. | | |
| BB | | US- 2002/0068212 | 08/06/2002 | Osenar et al. | | |
| BB | | US- 6,670,017 | 12/30/2003 | Huang et al. | | |
| BB | | US-6,371,489 | 04/16/2002 | , Combet et al. | | |
| | | US- | | | | |
| | | U\$- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | • | | | |

| • | | FOREIGN PA | TENT DOCU | MENIS | | |
|-----------------------|--------------|---|-----------------------------------|--------------------------------|--|----------------|
| Examiner Initials* | C94 | Foreign Patent Document | | Name of Patentee or | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁴ |
| | Cite No.' | Country Code ³ - Number ⁴ - Kind Code ⁸ (if known) | Publication Date MM-DD-YYYY | Applicant of Cited Document | | |
| BB | | EP 0 349 248 A2 | 01-03-1990 | Southland Industries | | |
| BB | | WO 02/17422 A2 | 02-28-2002 | Dana Corporation | | |
| BB | | EP 1 156 546 A1 | 11-21- 2001 | Ballard Power Systems Inc. | | |

| Examiner Signature | Some Bee | Date Considered | 12-6-05 |
|-----------------------|----------|--------------------|---------|

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (MIPO Standard ST.3). For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (end by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.